

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 July 2005 (28.07.2005)

PCT

(10) International Publication Number
WO 2005/068982 A1

(51) International Patent Classification⁷: **G01N 21/78**,
21/25, 21/27, 33/04

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(21) International Application Number:
PCT/DK2005/000027

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(22) International Filing Date: 17 January 2005 (17.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/536,832 16 January 2004 (16.01.2004) US

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR COLORIMETRIC DETERMINATION OF A CHEMICAL OR PHYSICAL PROPERTY OF A TURBID MEDIUM

Example of scan of the microtiter plate										4.47	4.88	5.08	<—Standard pH in column 3	
Column 3											Standards			
Column 2											Samples			
Column 1											Standards			
	H	G	F	E	D	C	B	A	<—Standard pH in column 1					
	5.16	5.48	5.67	6.00	6.21	6.49	6.65	6.86						
Colour values from Column2	-6	-5	-5	-6	-9	-11	-11	-11	a*					
	-18	-19	-18	-15	-8	-3	4	9	b*					
	252	255	254	248	222	195	160	141	Hue [†]					
	6.76	6.89	6.86	6.65	6.16	5.74	5.16	4.62	Sample pH					
	0.002%	0.005%	0.014%	0.041%	0.123%	0.370%	1.111%	3.333%	Inoculation level					

(57) Abstract: A new method and a system for the simultaneous determination of a biological, chemical and/or physical property of a plurality of individual samples of a turbid is described. The invention relates to a system and colorimetric method for simultaneous determination and measuring properties, such as acidification or pH value, redox potentials, viscosity, diffusion, enzymatic activity, etc. of a plurality of individual samples of a turbid or opaque medium, such as, e.g. milk, whey and related products. In particular, this invention relates to a method for non-invasively and/or non-destructively scanning samples or an array of samples, and determine on the basis of the scanning a specific property, such as pH, of the samples. The method may also be used for multivariate determinations of chemical and/or physical properties.



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*

Published:

- *with international search report*

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